

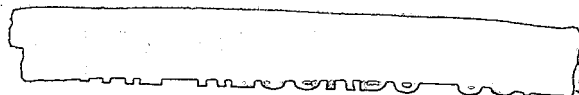
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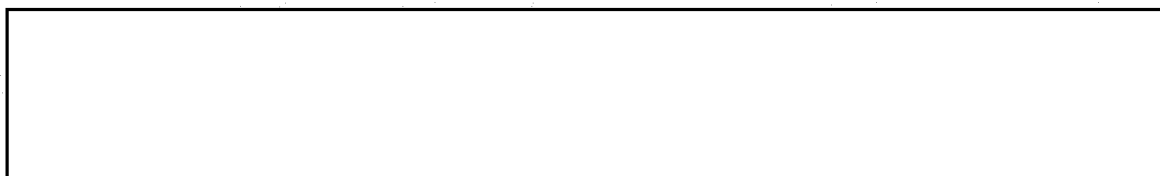


CHINESE POWER PLANTS

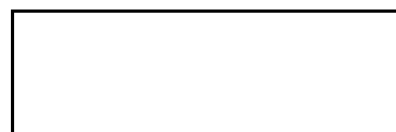
KANSU PROVINCE

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Declass Review by NIMA / DOD



DATE JULY 1966

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CIA IMAGERY ANALYSIS DIVISION

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## CHINESE POWER PLANTS

### KANSU PROVINCE

- (A) Chih-chin Hsia Thermal Power Plant
- (B) Lan-chou Thermal Power Plant (Hsi-ku)
- (C) Shang-hsuan Hydro Power Plant (Yen-kuo Hsia)
- (D) Shan-tan Thermal Power Plant
- (E) Shuang-cheng-tzu Thermal Power Plant
- (F) Yung-chang Thermal Power Plant
- (G) Yung-ching Hydro Power Plant (Liu-chia Hsia)

#### REQUIREMENT

C-RR5-83,218

CIA/IAD PROJECT

30647-6

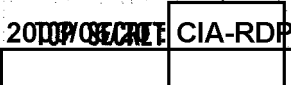
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CHIH-CHIN-HSIA THERMAL POWER PLANT

Chih-chin-hsia Thermal Power Plant is located within the Chih-chin-hsia Nuclear Energy Complex at approximate coordinates 40 10N - 97 25E. The facility is rail-served, coal-operated and consists of one natural-draft cooling tower, a control house with one transformer, coal unloading, conveying, and processing facilities, a large apparent engineering/support base, and numerous support/storage buildings.

The boilerhouse is equipped with four sets of widely-spaced flues that connect with masonry stack A, indicating that the plant can accommodate four boiler units. However, no more than three boiler units are probably operable, since only three sets of dust-catchers are installed. The generator hall has a single longitudinal monitor and is connected to the single transformer by one visible set of three-cable power leads.

A great deal of construction materials are stored to the west of the plant suggesting that more construction will follow. Bases for six small oil storage tanks and scarring for a second cooling tower are evident west and east of the powerhouse, respectively. An administration/engineering building is located east of the powerhouse. Several engineering/support type buildings are complete or nearing completion in the northeast corner of the power plant complex.

The plant has not been observed in operation, although all major components appear to be present. The plant has doubled in size with the addition of two boiler-generator sections, coal unloading and processing buildings, expanded flue system, and several engineering/support type buildings.

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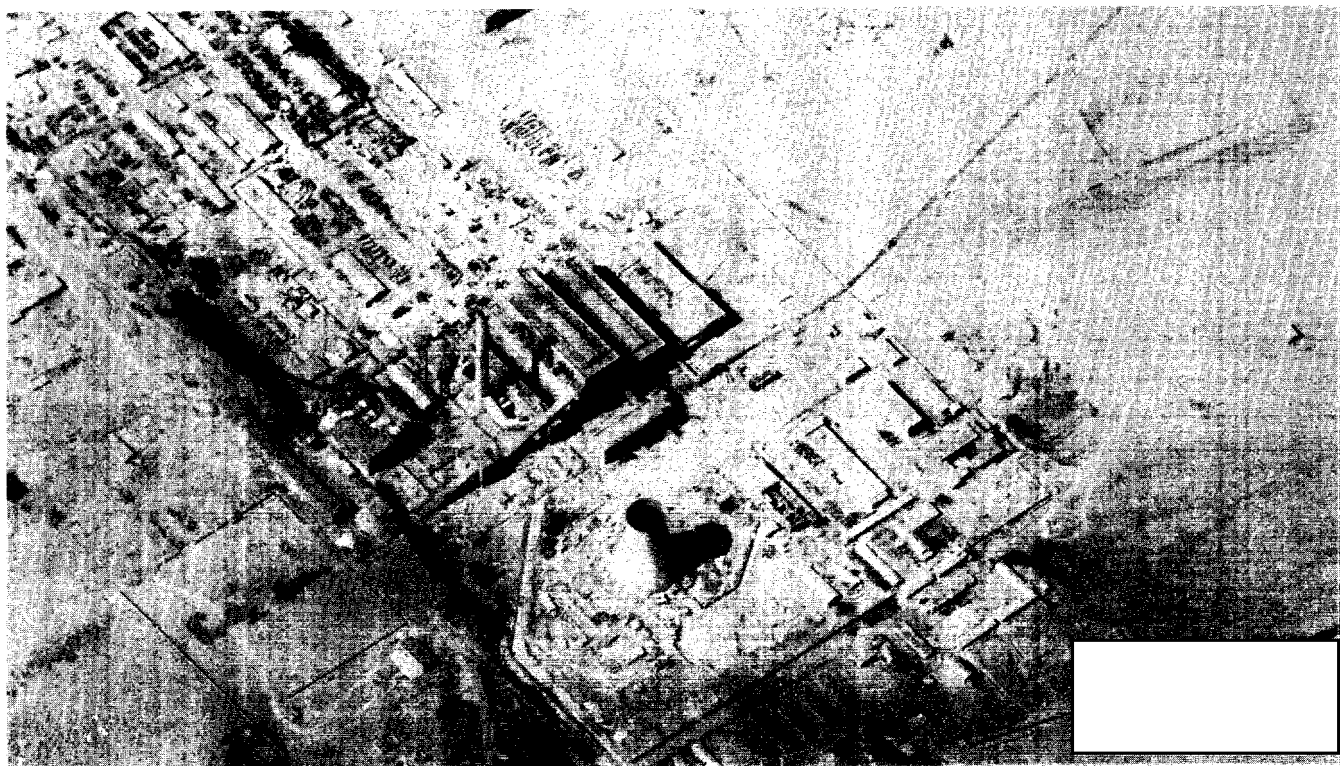
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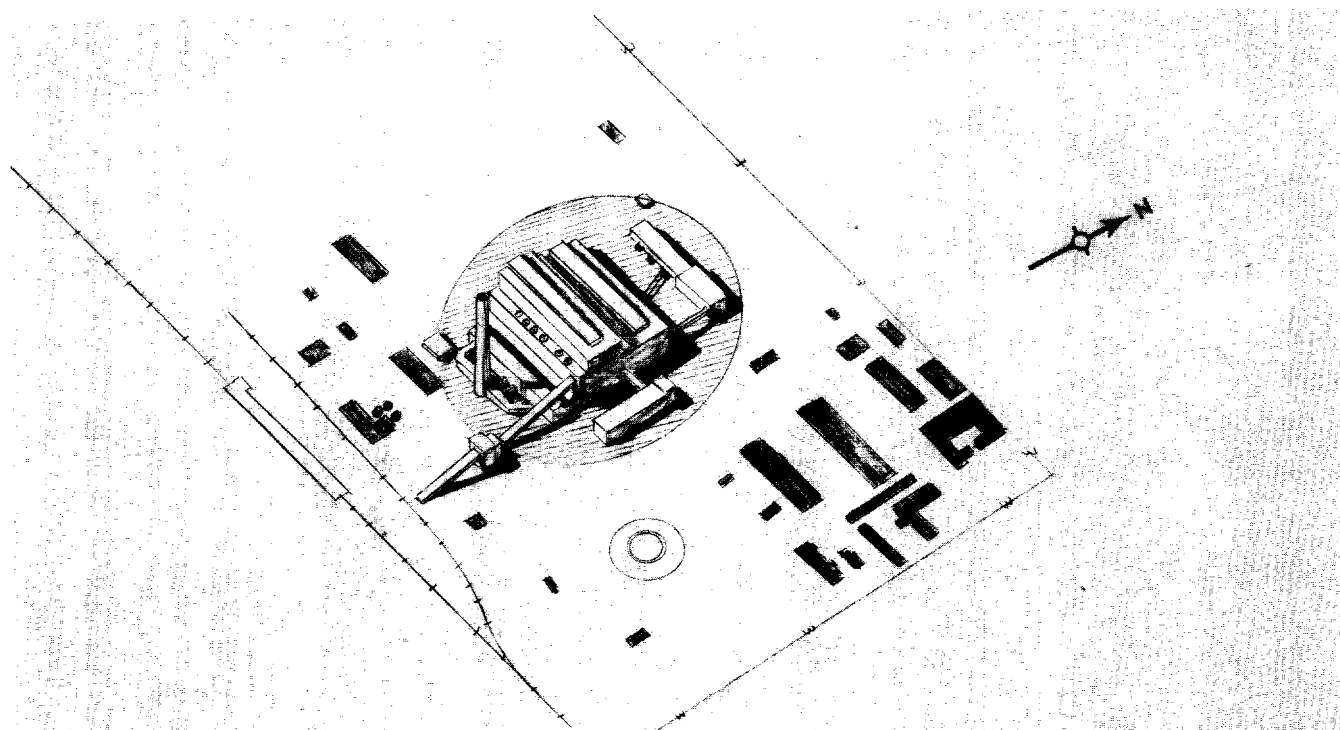
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FIGURE 2

CHIH-CHIN-HSIA THERMAL POWER PLANT



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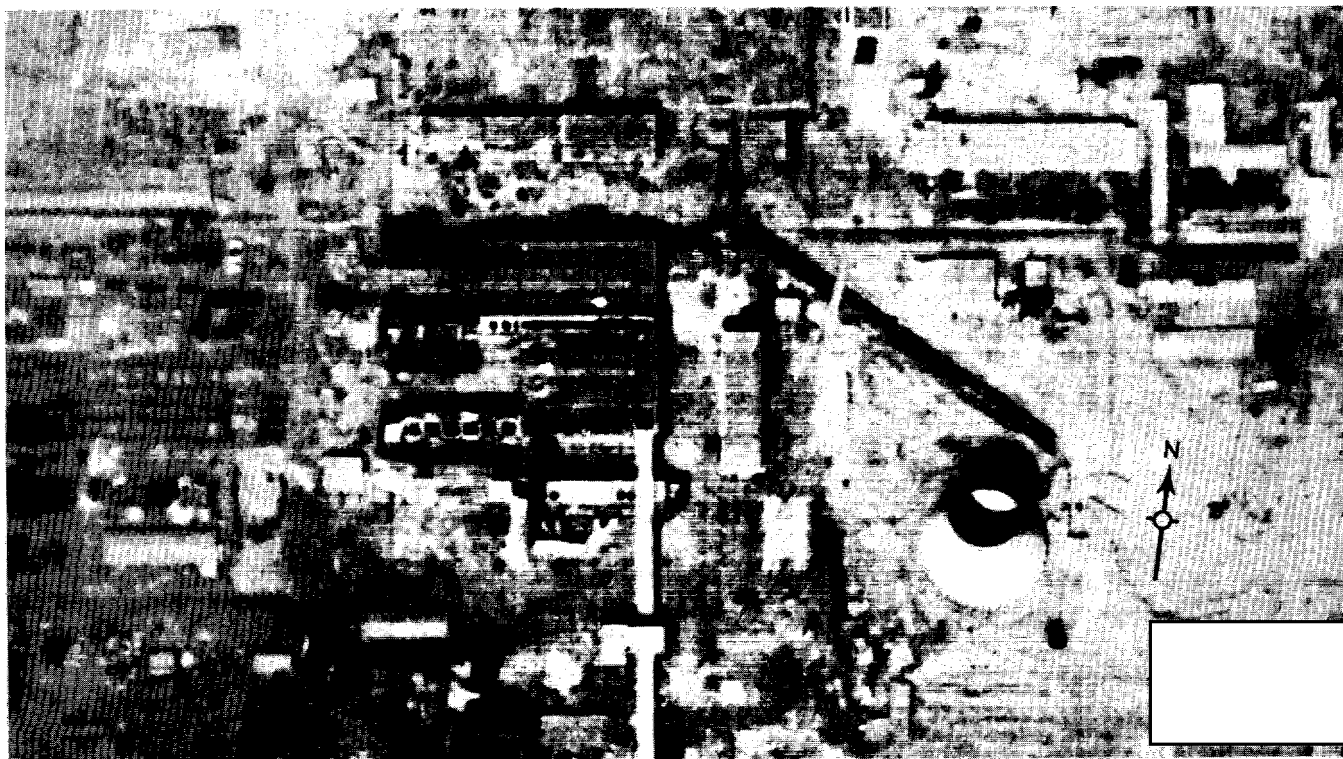
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FIGURE 3

CHIN-CHIN-HSIA THERMAL POWER PLANT





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CHIH-CHIN-HSIA THERMAL POWER PLANT

CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
<p>Completed housing for two boiler-generator units is evident. A masonry stack (A), two sets of flues, control house and several support buildings are also completed. There is no apparent construction activity.</p>	<p>None apparent.</p>
<p>No apparent change</p>	<p>None apparent.</p>
<p>First good quality coverage shows excavations for two additional boiler-generator sections. The substructure for a coal-unloading building and several uprights for the coal-processing facility are visible; circular excavations for two additional cooling towers are evident. A trench has been dug and pipe probably laid for an underground water connection between the powerhouse and cooling tower.</p>	<p>None apparent.</p>
<p>Walls for the powerhouse addition are in place and the coal-processing facility is nearly completed. Two pipelines are definitely laid in the trenching connecting the powerhouse and cooling tower. Photography reveals that the flue system is connected to the unit housing the blower/exhaust fans; however, the latter</p>	<p>None apparent.</p>

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CHIH-CHIN-HSIA THERMAL POWER PLANT

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	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	<p>unit is not yet linked to the boilerhouse, making the plant inoperable.</p> <p>Housing for the two new boiler-generator units has been completed and three sets of dust-catchers are installed. The flue system for the new sections is also complete. The blower/exhaust section is being connected to the powerhouse; three single ducts are visible. One transformer has been installed and connected to the control house. The trench for the water pipes has been partially filled in. An excavation for one cooling tower, previously observed, has been filled. The other site shows no change.</p>	<p>None apparent.</p>
	<p>No apparent change</p>	<p>None apparent.</p>

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CIA IMAGERY ANALYSIS DIVISION

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LAN-CHOU THERMAL POWER PLANT (HSI-KU)

NPIC NUMBER - 3-L

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The Lan-chou Thermal Power Plant (Hsi-ku) is located adjacent to the Lan-chou Petroleum Refinery at coordinates 36 07 44N - 103 37 09E. The plant is rail-served, coal-operated and includes a large substation with a control house, two switching buildings and seven transformers, an oil storage area, two rectangular water collection or settling basins, and extensive coal storage, treatment and handling facilities.

The powerhouse consists of two boiler sections contiguous to a single generator hall. The larger (western) boiler section is equipped with five dust-catcher units and five pairs of flues which connect with masonry stack A. The eastern section has expanded recently and contains at least four boiler units; however, only two or possibly three units are equipped with dust-catchers and connected by flues to stack B. The fourth boiler section does not appear to have a flue system installed; a dust-catcher unit for this section could not be discerned on the latest photography; however, this could possibly be attributed to the scale and quality of the photography. A fifth boiler unit will probably be added for a plant total of ten.

The generator hall has also expanded recently, but now appears to be complete. Seven three-cable power leads were observed [redacted] before the latest addition was completed (at that time seven boiler units were believed operable). The generator hall addition appears large enough to accommodate three units, but no large scale post-addition photography is available to confirm this. It is doubtful that more than eight boiler-generator units are operable.

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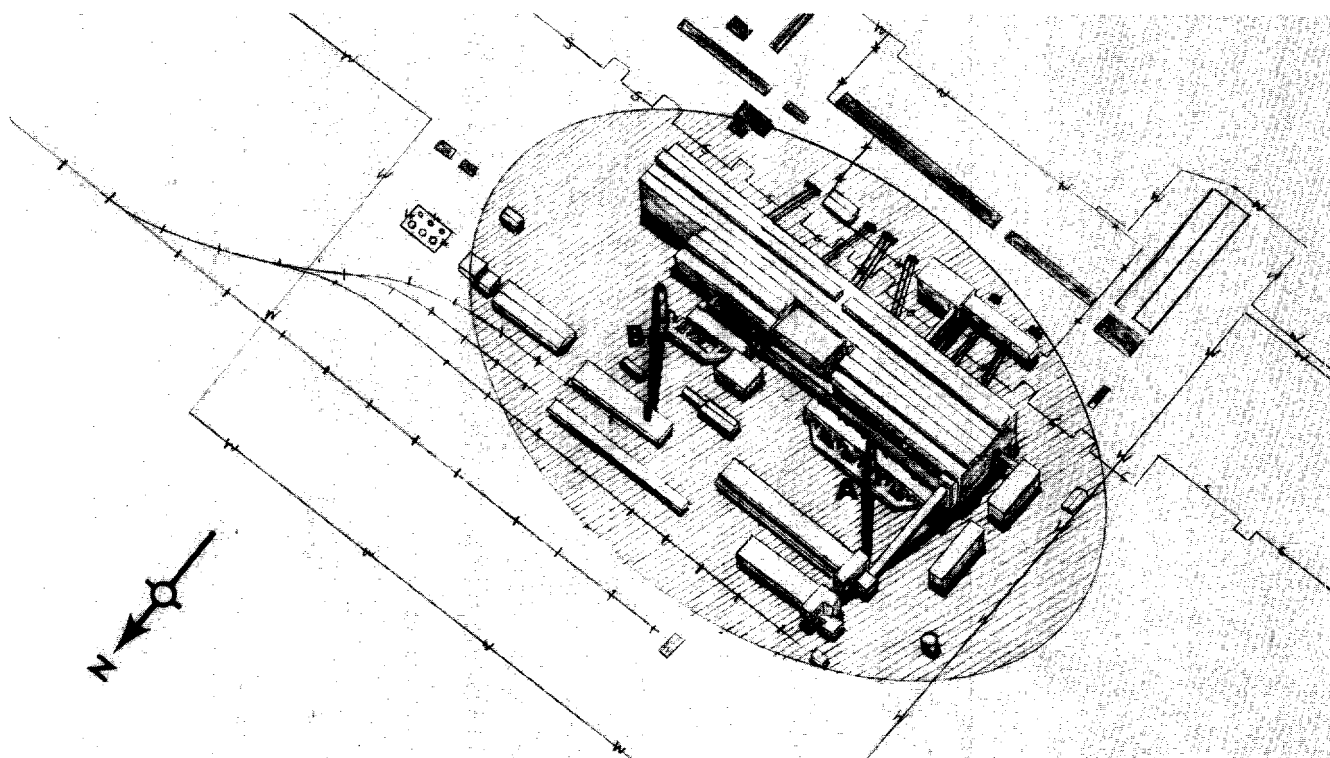
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FIGURE 4

LAN-CHOU THERMAL POWER PLANT (HSI-KU)



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FIGURE 5

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LAN-CHOU THERMAL POWER PLANT (HSI-KU)

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CIA IMAGERY ANALYSIS DIVISION

LAN-CHOU THERMAL POWER PLANT (HSI-KU)

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CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
Lumber is seen east of plant. Two sets of ducts are in place and connected. Uprights are in place for generator hall expansion. Some preliminary excavation has been done for boiler-house expansion.	Heavy smoke from stack A. Moderate smoke from stack B.
Construction work is continuing slowly on expansion of boiler/generator hall. Lumber is seen east of plant.	Moderate smoke from stack A.
No significant change	Moderate smoke from stack A.
No significant change	Smoke/clouds preclude analysis.
No apparent change. Construction appears to be arrested.	Moderate smoke from stacks A and B.

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LAN-CHOU THERMAL POWER PLANT (HSI-KU)

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	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None apparent.	Moderate smoke from stacks A and B.
	Smoke precludes analysis.	Moderate smoke from stacks A and B.
	Generator hall addition appears complete. The eastern boiler section has doubled in size, but only three units appear connected by flues.	Heavy smoke from stacks A and B.
	No apparent change	Heavy smoke from stacks A and B.

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SHANG-HSUAN HYDRO POWER PLANT (YEN-KUO HSIA)

NPIC NUMBER - 30

The Shang-hsuan Hydro Power Plant (Yen-kuo Hsia) is located 20 nm west of Lan-chou on the Huang Ho (River) at coordinates 36 03 30N - 103 16 20E, and is of the concrete, consolidated type with integrated spillway. The plant has been under construction [REDACTED] and has progressed slowly.

The first good coverage [REDACTED] showed that the dam, spillway, and apparently one-half of the powerhouse were complete. The dam contains at least fourteen water-intakes; five serve the spillway and at least nine are located along that portion of the dam that is contiguous to the completed powerhouse section and partially completed powerhouse substructure. The powerhouse appeared to have completed housing for four turbo-generator units [REDACTED]. Housing for probably two additional units was complete [REDACTED]. One transformer was observed [REDACTED] between the powerhouse and dam face. Most of this area is roofed making detection of other transformers impossible. An indication of the number of turbo-generators to be installed is provided by the presence of power-cable support brackets (bus-bars) mounted above the powerhouse on the dam wall. One set was observed [REDACTED] behind the single visible transformer; six sets appear to be present [REDACTED]. The scale of subsequent photography was too small to discern this feature.

Power cables were noted for the first time [REDACTED] sets of three-line cables lead from behind the powerhouse in the direction of a large transmission pylon located on a hill north of the plant. A string of towers lead northeast to a substation [REDACTED]. Turbulence was noted for the first time in [REDACTED] subsequent instances of activity occurred in [REDACTED].

Light construction occurred during the period [REDACTED]. Housing for two turbo-generator units was completed, five sets of power cable supports, and three sets of power leads were installed.

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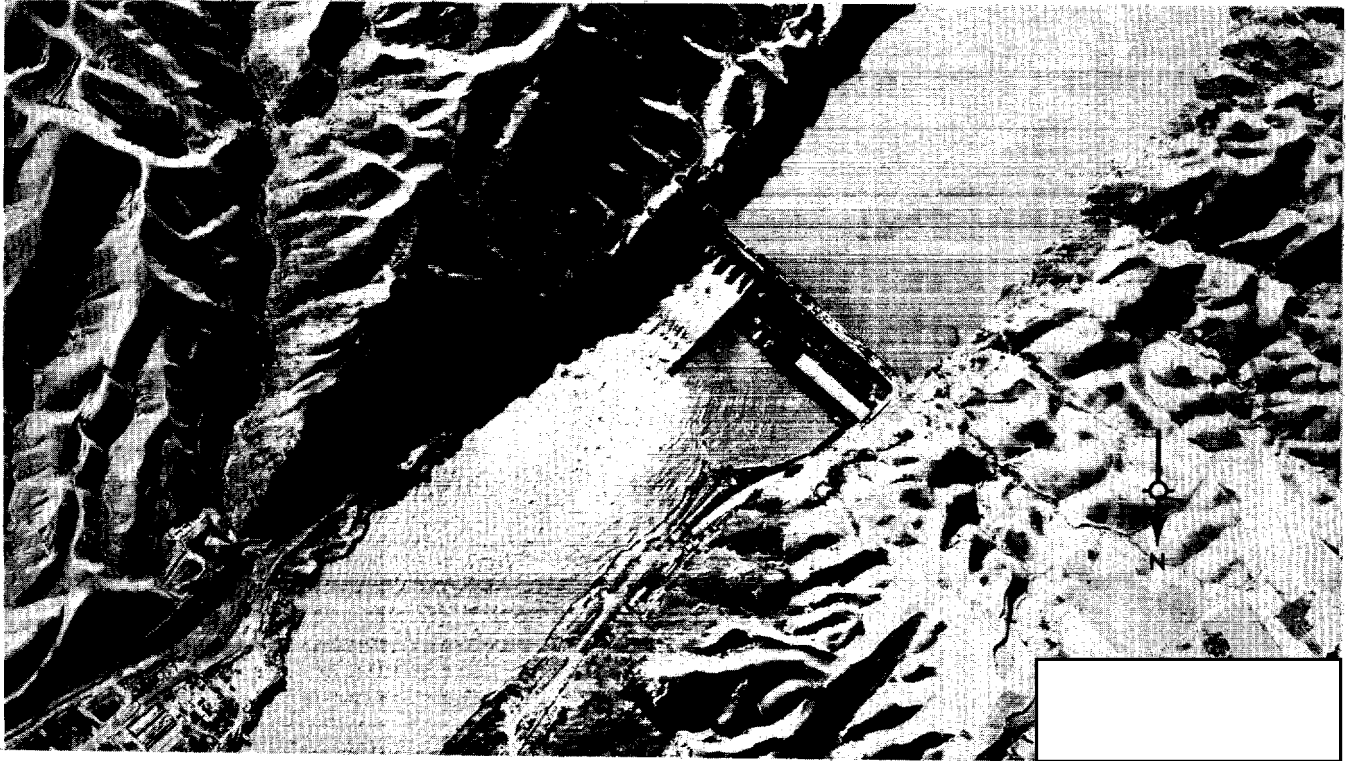
FIGURE 7

SHANG-HSUAN HYDRO POWER PLANT (YEN-KUO HSIA)

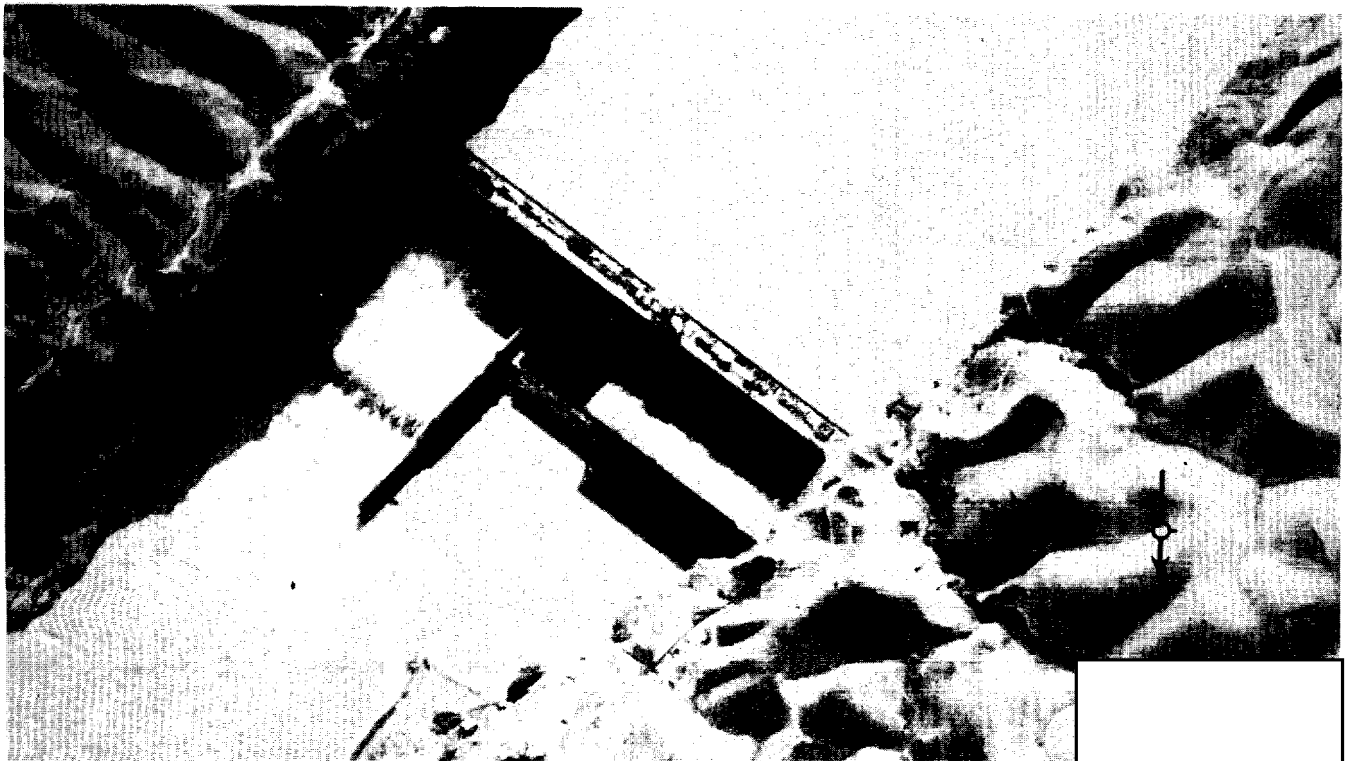
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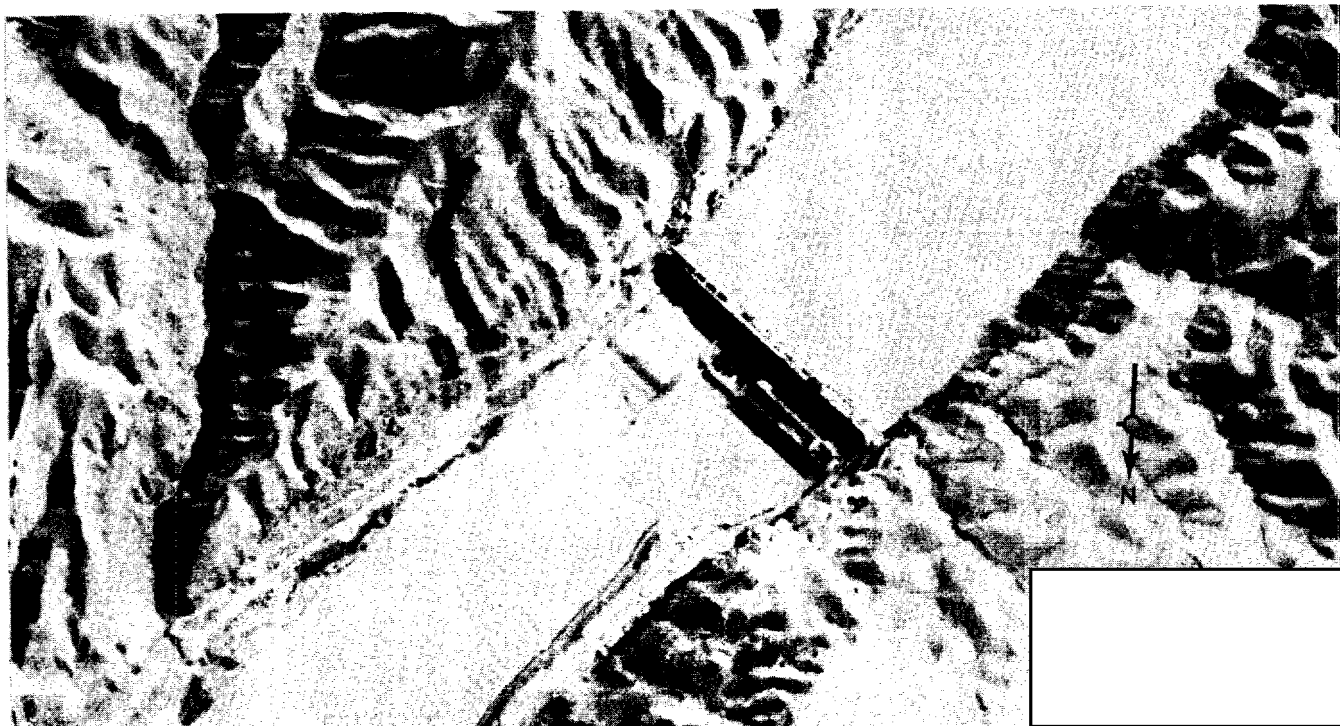
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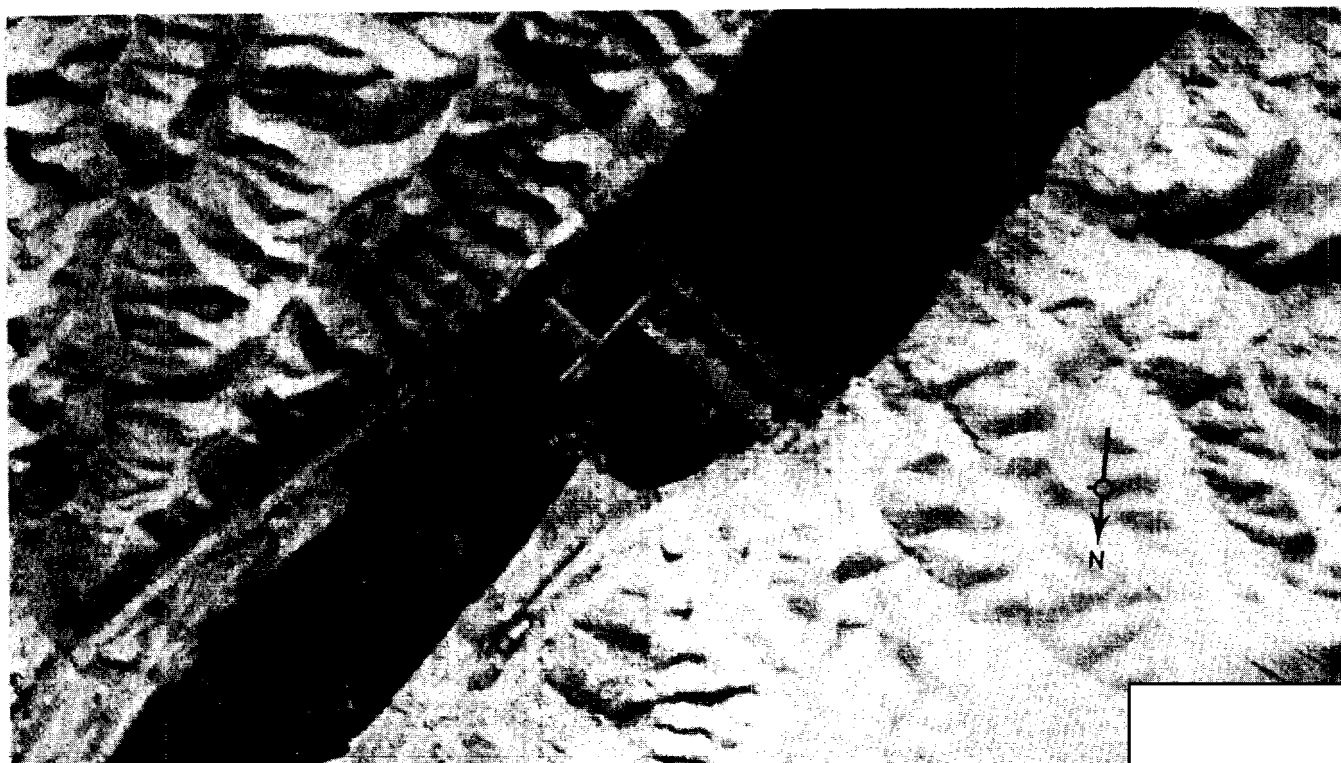
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FIGURE 8

SHANG-HSUAN HYDRO POWER PLANT (YEN-KUO HSIA)



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SHANG-HSUAN HYDRO POWER PLANT (YEN-KUO HSIA)

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CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
Housing for four power units is completed and substructure for five additional units is apparent. One transformer is uncovered behind powerhouse; one set of power-cable supports (bus-bars) is installed on the dam face.	No turbulence from the powerhouse. Heavy discharge from two spillway gates.
Scaffolding is evident on spillway apron, indicating repair work. Cat-walks connect the east bank with the apron. One of five portals noted in the dam face in [redacted] has been sealed.	Turbulence noted from probably one powerhouse outlet located in the area in front of the transformer equipped section.
Scaffolding has been removed from spillway apron.	No turbulence from the powerhouse. Heavy discharge from four spillway gates.
Cat-walk is apparent leading from east bank to the top of the dam. Two more portals have been sealed.	No turbulence from the powerhouse. Heavy discharge from five spillway gates.
Construction appears to be underway on extension to the powerhouse.	No turbulence from the powerhouse. Possible discharge from several spillway gates.

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SHANG-HSUAN HYDRO POWER PLANT (YEN-KUO HSIA)

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	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	Housing is complete for two additional turbo-generator sections. Three sets of power leads are visible between powerhouse and transmission tower.	No turbulence from the powerhouse. Moderate discharge from three spillway gates.
	No apparent change.	No turbulence observed. No discharge from spillway noted.
	No apparent change.	Turbulence noted approximately in the center of the powerhouse. Moderate discharge from one spillway gate.
	Log-boom has been implaced along the powerhouse water intake-gates. No other apparent change.	No turbulence observed. No discharge is apparent from spillway gates.
	No apparent change.	Turbulenced noted in same general area <span style="border: 1px solid black; display: inline-block; width: 150px; height: 1.2em; vertical-align: middle;"></span> No discharge from spillway gates.

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CIA IMAGERY ANALYSIS DIVISION

SHAN-TAN THERMAL POWER PLANT

Shan-tan Thermal Power Plant is located southwest of Shan-tan at approximate coordinates 38 47N - 101 16E. The facility is rail-served, coal-operated, and includes a substation with one transformer, four small spray ponds, and several support/storage buildings.

The boilerhouse is equipped with one probable masonry free-standing stack. There are no dust-catcher units visible. There are two widely spaced monitors on the generator hall roof suggesting facilities for two generator units; however, only one set of three-cable power leads is evident between the generator hall and the substation.

No new construction occurred during the period

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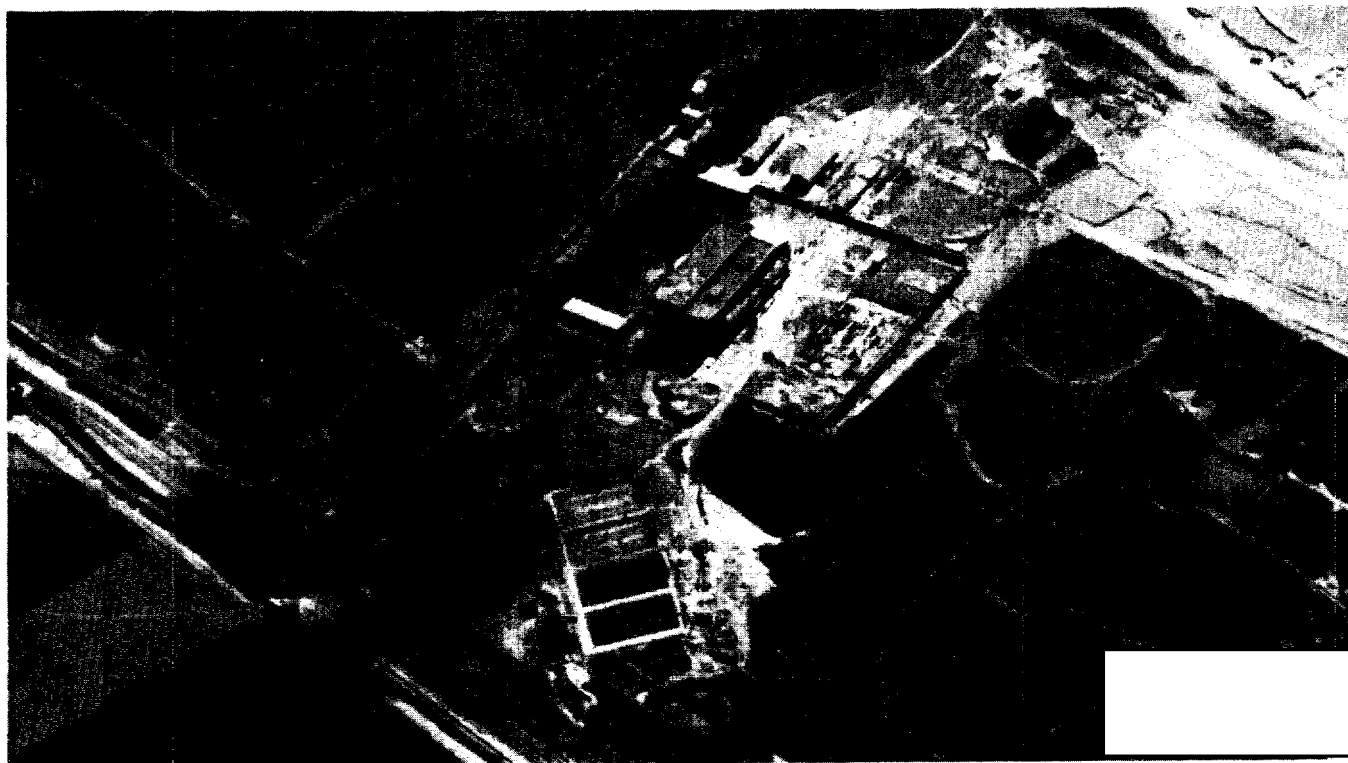
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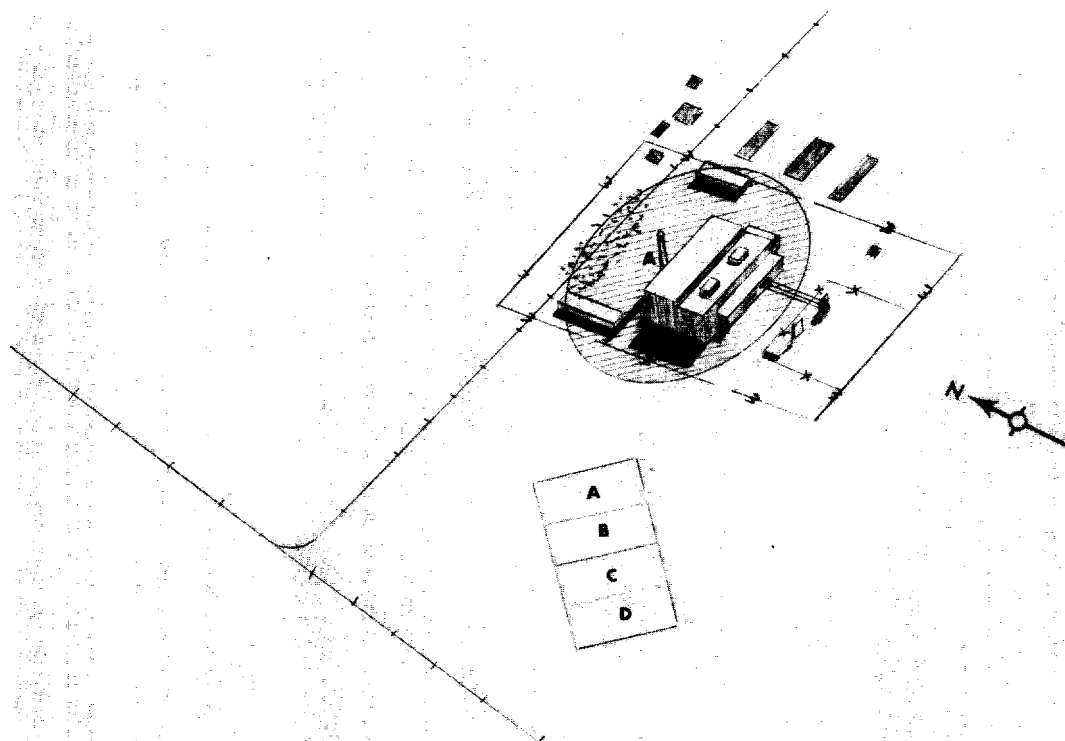
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FIGURE 9

SHAN-TAN THERMAL POWER PLANT



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SHAN-TAN THERMAL POWER PLANT

	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None	Light smoke from stack A. Spray ponds C and D are full, but not in operation.
	None	Light smoke from stack A. All four spray ponds are filled, but are not in operation.
	None	Light smoke from stack A. Poor quality film precludes further analysis.
	None	Light smoke from stack A. All four spray ponds are filled, but are not in operation.
	None	Light smoke from stack A. Spray ponds A and B are filled, but are not in operation.

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SHAN-TAN THERMAL POWER PLANT

	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None	Light smoke from stack A. Spray ponds A, B, C, and D are filled, but not in operation.

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CIA IMAGERY ANALYSIS DIVISION

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SHUANG-CHENG-TZU THERMAL POWER PLANT

Shuang-cheng-tzu Thermal Power Plant is located 1.4 nm north of Shuang-cheng-tzu North Airfield at coordinates 40 58 40N - 100 13 40E. The facility is rail-served, coal-operated and consists of two cooling towers, substation with two transformers, coal handling and processing facilities, administration wing, and numerous support/storage buildings.

The powerhouse is connected to free-standing masonry stack A by two widely spaced flues, suggesting two boiler units. The generator hall has a single longitudinal monitor and an integrated control house. Two sets of three-cable power leads connect the control house with two transformers in the substation, indicating two operable generator units.

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There has been no new construction during the period [REDACTED] Only two instances of plant activity were apparent during this same period. Light vapor was observed from cooling tower A [REDACTED] light smoke from stack A [REDACTED] and light vapor from cooling tower A were noted [REDACTED]

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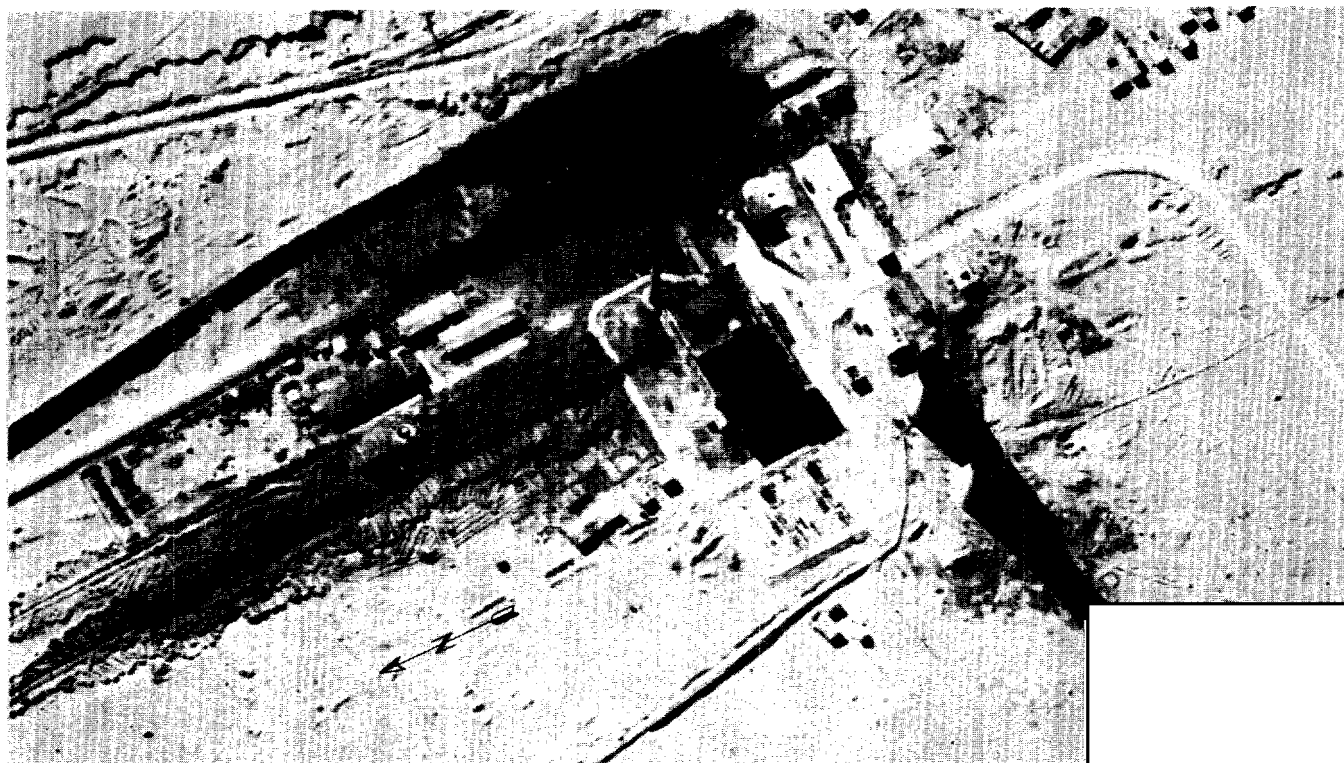
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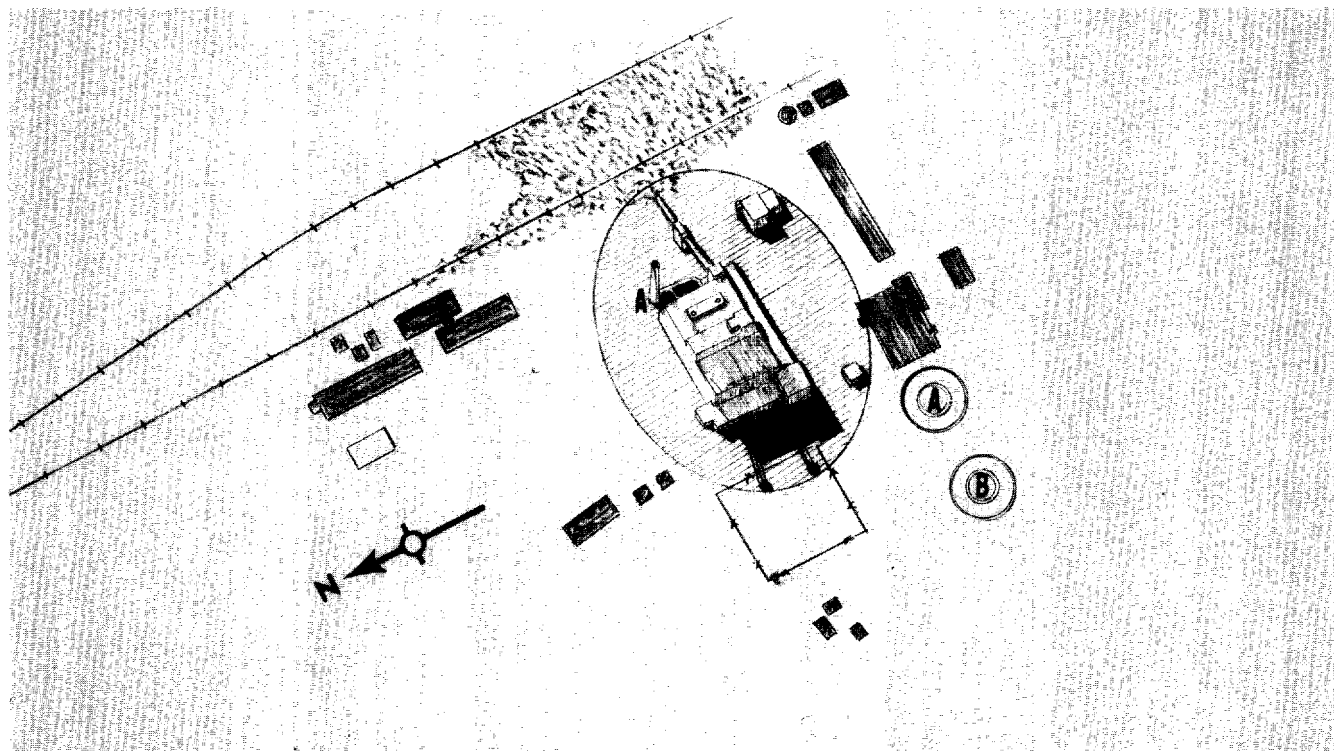
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FIGURE 10

SHUANG-CHENG-TZU THERMAL POWER PLANT



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CIA IMAGERY ANALYSIS DIVISION

YUNG-CHANG THERMAL POWER PLANT

NPIC NUMBER - 27-C

The Yung-chang Thermal Power Plant is located in the northeastern sector of Ho-hsi-pao on the north bank of a small tributary at coordinates 38 23 00N - 102 05 30E. The facility is rail-served, coal-operated, and consists of a natural-draft cooling tower, substation, control house, coal conveyor system, and numerous support/storage buildings.

The boilerhouse consists of a completed section with two pairs of flues which connect to stack A and two sets of dust-catchers, indicating two operable boiler units. Uprights are in place for an addition which will apparently be capable of accommodating three boiler units of the size of those already installed. The generator hall consists of the original section which is monitored and an addition which is, for the present, flat-roofed. No power cables could be discerned; however, smoke obscured the generator hall on the only coverage suitable for such an analysis.

Considerable construction activity has occurred

the plant consisted of two probably completed boiler-generator units, control house, administration building, free-standing masonry stack A, coal-processing tower, the base for cooling tower A, and several support/storage buildings. The plant was probably inoperable, inasmuch as no flue system was evident between the boilerhouse and stack A. Since that time, a coal conveyor, partial flue system, generator hall expansion, substation, coal storage yard, and uprights for an addition to the generator hall have been added.

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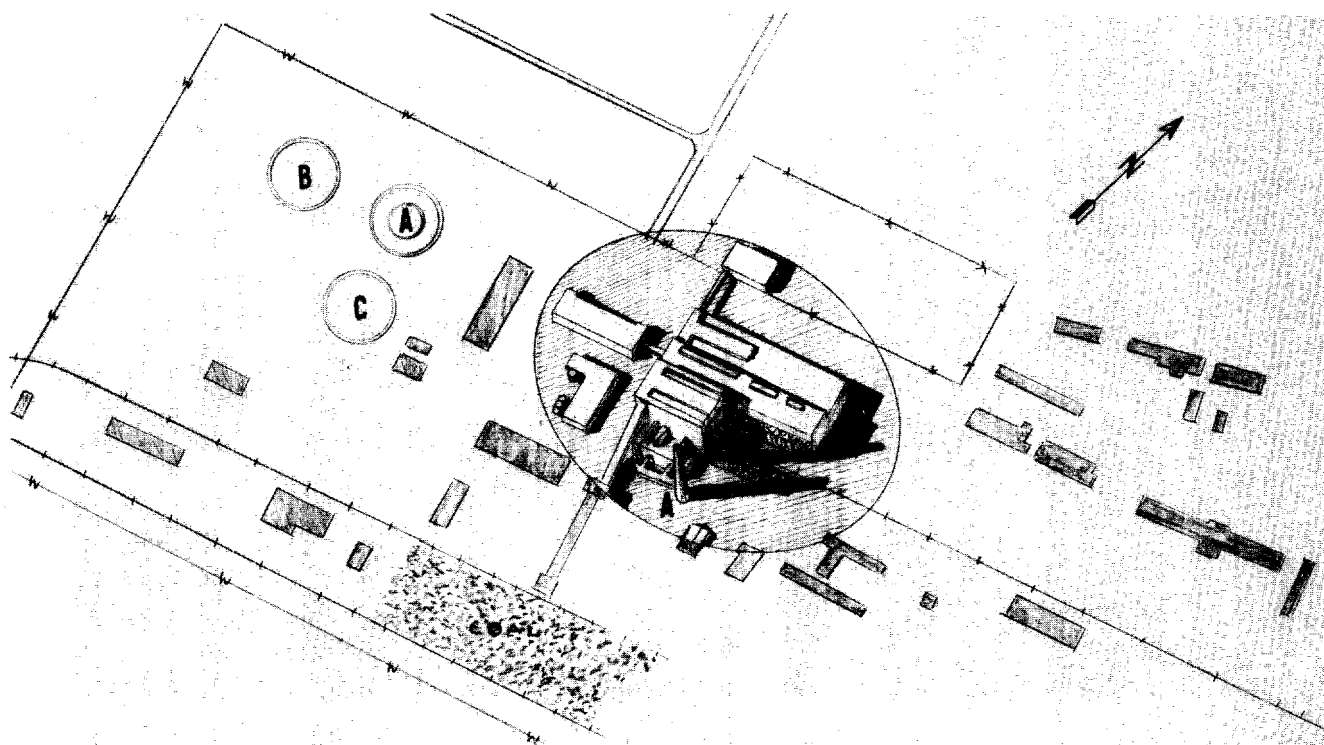
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FIGURE 11

# YUNG-CHANG THERMAL POWER PLANT



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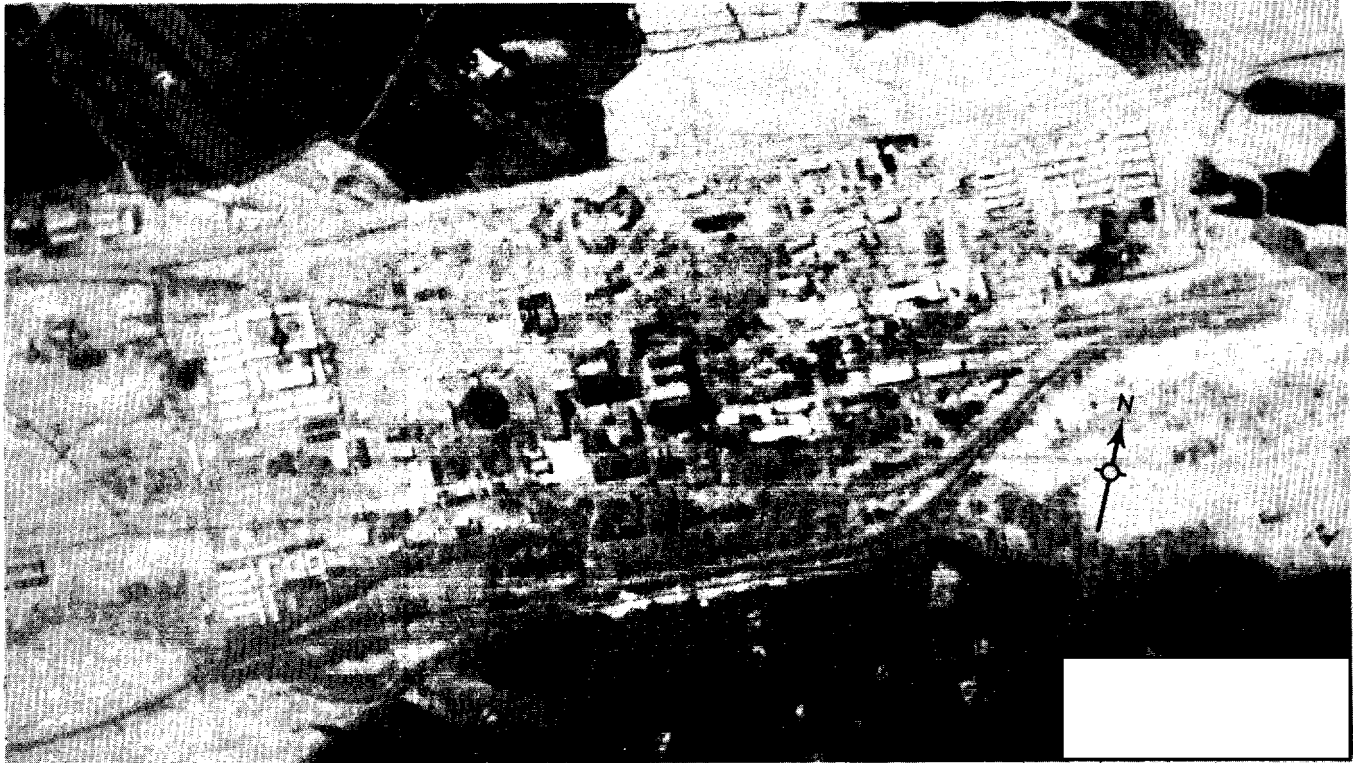
FIGURE 12

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YUNG-CHANG THERMAL POWER PLANT



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YUNG-CHANG THERMAL POWER PLANT

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CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
Construction is underway on the base for cooling tower A. No other activity is apparent.	N/A
Cooling tower A is completed. Preliminary excavation work has been done for cooling towers B and C.	N/A
Coal conveyor and flue system are installed. No other changes or activity was noted.	Light smoke from stack A. Light vapor from cooling tower A.
None apparent.	Light smoke from stack A. Light vapor from cooling tower A.
Uprights are evident for extension of the generator hall.	Light smoke from stack A. Moderate vapor from cooling tower A.
Generator hall expansion is apparently complete. Uprights are in place for boilerhouse addition.	Light smoke from stack A. Very light vapor from cooling tower A.

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CIA IMAGERY ANALYSIS DIVISION

YUNG-CHANG THERMAL POWER PLANT

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	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	<p>Walls are under construction for boilerhouse expansion. Substation is being expanded; several holes have been dug, possibly to mount transformers. Footings are in place for cooling tower B. No change in status of excavation for cooling tower C.</p>	<p>Light smoke from stack A.</p>

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YUNG-CHING HYDRO POWER PLANT (LIU-CHIA HSIA)

NPIC NUMBER - 30

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Yung-ching Hydro Power Plant (Liu-chia Hsia) is located 21 nm south-southwest of Lan-chou on the Huang Ho at coordinates 35 55 00N - 103 20 00E. This facility has had a spectacular growth [redacted] and presently consists of a completed, concrete, arch-type dam, two water by-pass tunnels, an auxiliary dam, and a large construction base.

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Photography [redacted] revealed the site in an early stage of development; a by-pass tunnel had been completed through the southern bank of the Liu-chia Gorge and a long earthen or possibly concrete wing (now removed) was implaced on the northern bank. The construction support area consisted of bases for several components of the batch-plant, five small sheds, and excavations for a materials storage area. Considerable scarring was evident on both sides of the gorge. An unidentified structure, probably a dam base from a previous dam construction effort, was barely discernable in the gorge.

25X1

Construction [redacted] was minor. A large housing and support base was observed north of the dam site [redacted] and the probable screening and mixing equipment of the batch plant was completed and equipped with a conveyor [redacted]. A construction bridge was erected across the gorge and excavations, connected with the construction of the auxiliary dam, were first apparent [redacted]. Coverage [redacted] revealed few apparent changes. A crane appeared at the east end of the construction base on the north bank, and several support/storage buildings were erected. Heavy shadows all but obscured the dam site in the gorge, but there appeared to be no evidence that the dam was under construction at that time. A railroad spur was visible leading southeast from the main rail line into the gorge near the downstream base of the dam. It was impossible to determine if the spur line was tracked and operable.

25X1

25X1

25X1

25X1

25X1

25X1

Considerable progress was evident [redacted]. The first conclusive evidences of dam construction were visible [redacted]. A section of the dam base could be seen in the northern part of the gorge and along the face of the north wall. Heavy shadows obscured the southern one-half of the gorge and precluded any analysis of that area. The auxiliary dam was also evident and was about two-thirds complete. An aerial cableway,

25X1

25X1

TOP SECRET

25X1

25X1 CIA IMAGERY ANALYSIS DIVISION [ ]

25X1 supported by an "A" frame on the north bank and anchored on the south bank, was visible, as was a second by-pass tunnel which was located under the northern bank.

25X1 The latest coverage [ ] revealed that the main concrete-arch dam and auxiliary dam were probably complete; however, structures presently apparent gives no indication of the location of the generator hall. A concrete apron is being laid at the western base of the dam and may possibly provide the foundation for the generating facilities.

Two railroads can be traced into the construction area. One line follows the gorge eastward towards the dam site but terminates just short of the north bank by-pass tunnel exit. Beyond this point, the rail alignment gradually fades and apparently terminates at a small bridge located beneath the overhead construction bridge. A second rail alignment sweeps east above the gorge, past the housing base and a secondary construction materials storage area, and terminates in a broad curve just north of the auxiliary dam. The rail alignment is presently such that, if extended, it would pass directly over the auxiliary dam.

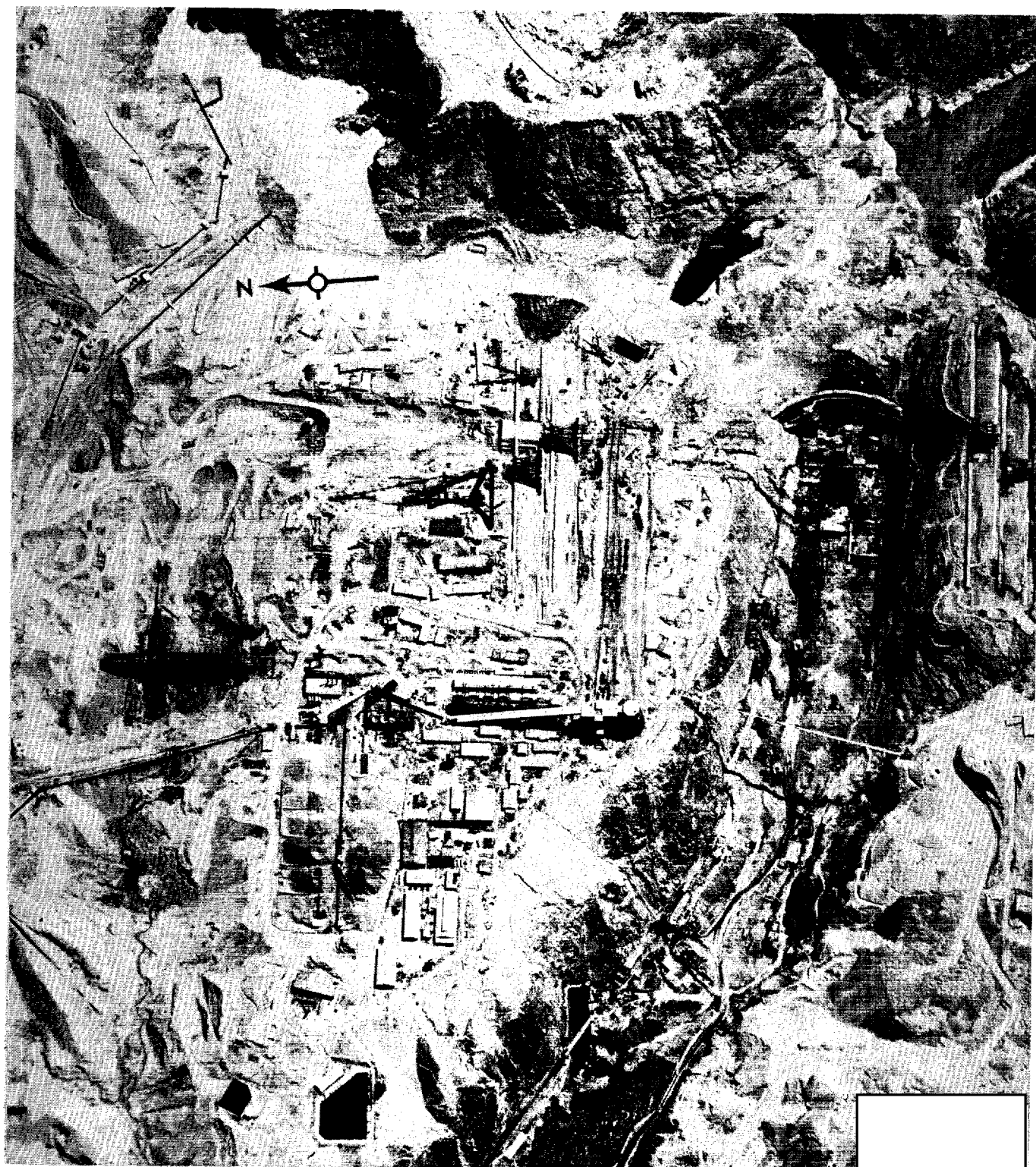
There is no indication at present of the proposed location of the spillway. No high tension lines could be traced from Lan-chou or Shanghsuan Hydro Power Plant (Yen-kuo Hsia) although two substations, one equipped with two transformers, were located in the immediate area of the construction site and support base.



TOP SECRET

FIGURE 13

YUNG-CHING HYDRO POWER PLANT (LIU-CHIA HSIA)



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TOP SECRET

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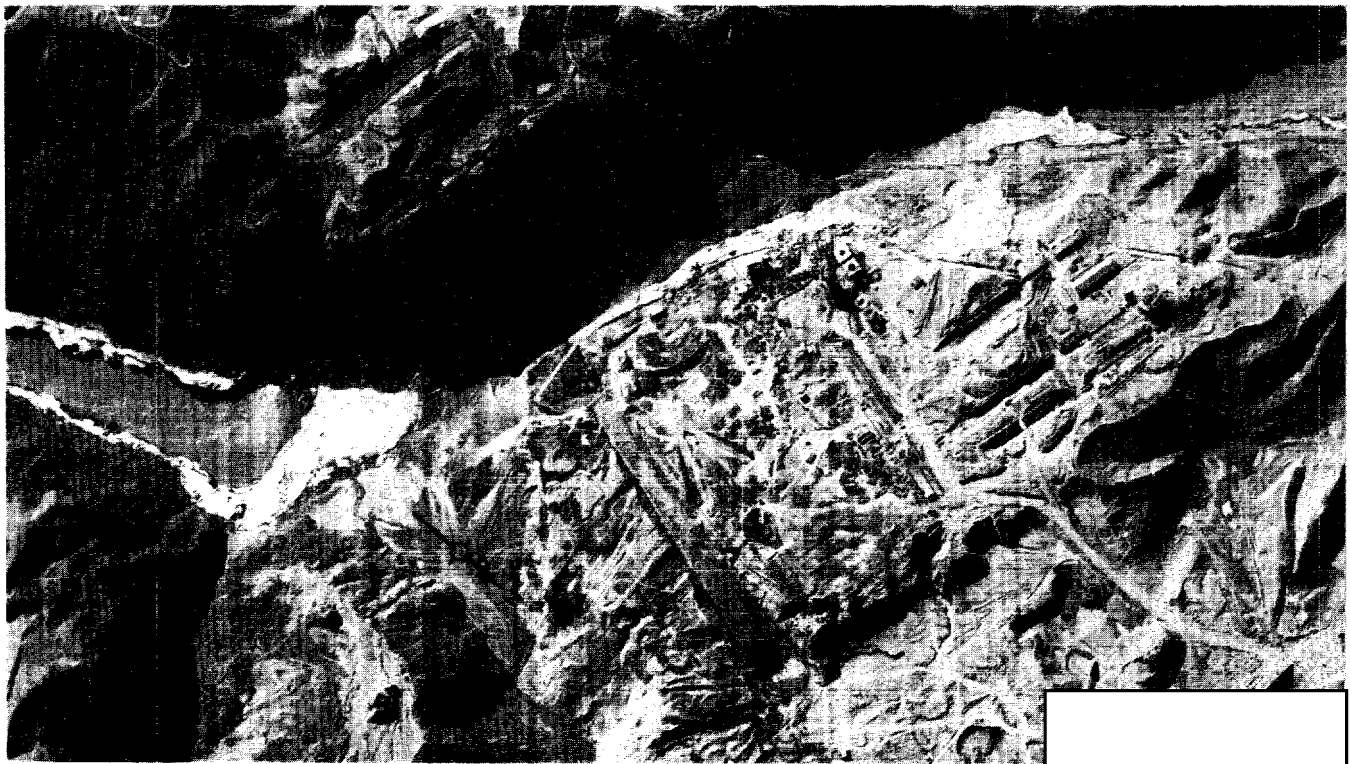
25X1  
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TOP SECRET

FIGURE 14

YUNG-CHING HYDRO POWER PLANT (LIU-CHIA HSIA)



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25X1  
25X1  
25X1

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TOP SECRET

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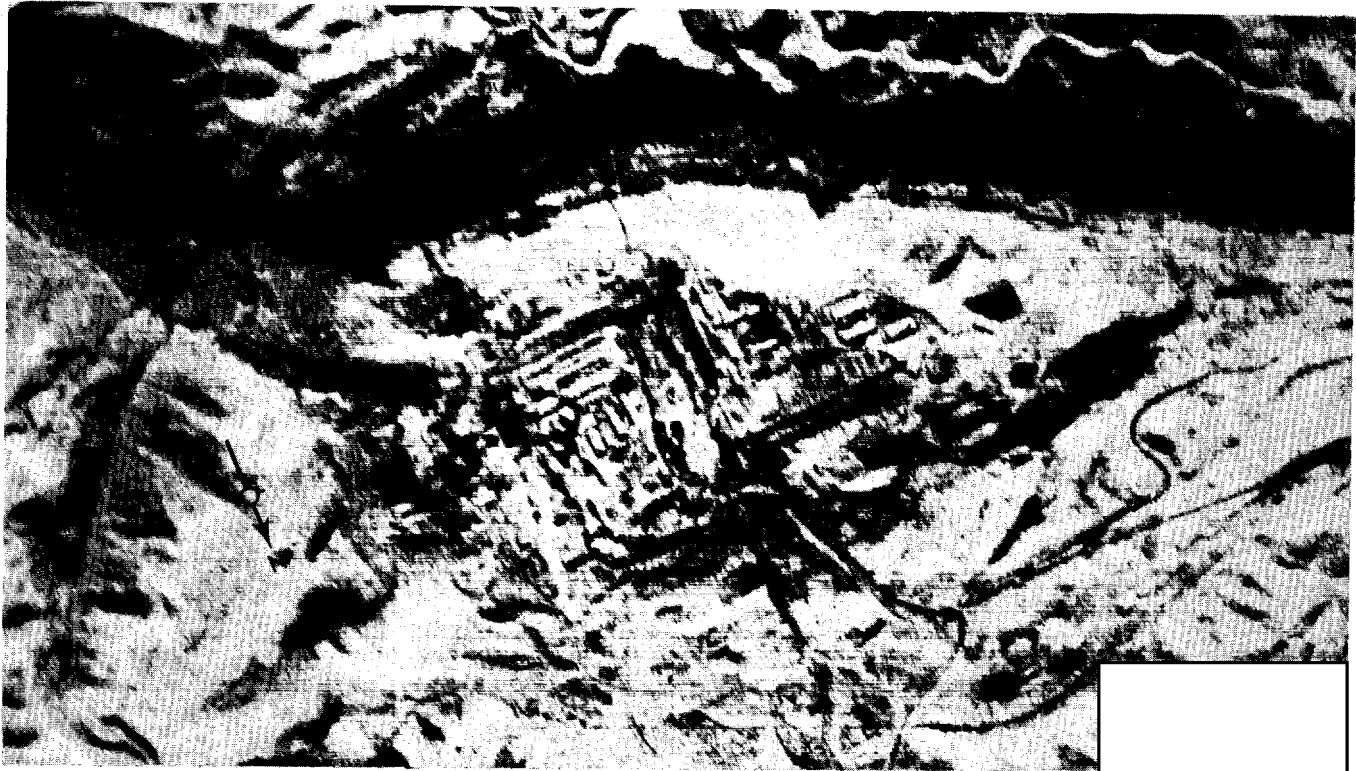
FIGURE 15

25X1

YUNG-CHING HYDRO POWER PLANT (LIU-CHIA HSIA)

25X1

25X1



25X1

TOP SECRET

25X1

25X1

25X1  
25X1  
25X1

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YUNG-CHING HYDRO POWER PLANT (LIU-CHIA HSIA)

25X1

25X1

25X1

25X1

CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
Early stage of construction is evident. A support base is being erected and extensive scarring marks both sides of the gorge. [REDACTED]	N/A
[REDACTED] the southern bank, and an earthen or concrete wing of unknown purpose is implaced on the northern bank. Possible dam base from old construction effort is visible at the base of the gorge.	
Large housing and support base is developing northeast of the construction site.	N/A
The probable screening and mixing equipment for the batch plant continued to be assembled. No further change was evident.	N/A
The probable screening and mixing equipment appears complete and is equipped with a conveyor. No other changes are apparent.	N/A

TOP SECRET

25X1

CIA IMAGERY ANALYSIS DIVISION

25X1

25X1

YUNG-CHING HYDRO POWER PLANT (LIU-CHIA HSIA)

	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	Poor quality coverage and obliquity preclude detailed interpretation, but there appears to be no significant change.	N/A
	A new construction bridge has been erected across the gorge; excavations for the auxiliary dam are apparent on the north bank.	
	Several construction/support buildings have been added, but no significant changes are evident.	N/A
	First evidence of dam construction was apparent. The substructure of the dam was visible at the base of the gorge and a short distance up the north wall of the gorge. The auxiliary dam is two-thirds completed, and a new by-pass tunnel is thru. Extensive expansion has occurred at the construction base.	N/A

25X1

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YUNG-CHING HYDRO POWER PLANT (LIU-CHIA HSIA)

25X1

25X1

CONSTRUCTION ACTIVITY

LEVEL OF PRODUCTION

The main dam and auxiliary dam are apparently complete; construction continues on concrete aprons at the downstream base of the dam. No evidence of any construction associated with the powerhouse is evident.

N/A

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**TOP SECRET**